

Notice of Allowability

Application No.

10/626,862

Examiner

My-Trang N. Ton

Applicant(s)

KUNC ET AL.

Art Unit

2816

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Tel. Int. 07/08/04.
2. ☒ The allowed claim(s) is/are 1-7.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 07/08/04.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 07/08/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 07/08/04
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


MY-TRANG NUTON
PRIMARY EXAMINER

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Att. Slobasky on July 8, 2004.

The application has been amended as follows:

In the specification

Page 5, line 5, before "technical", delete – said --.

Page 7, line 1, before "technical", delete – said --.

Page 8,

line 3, before "interface", delete – said --;

after line 4, insert a paragraph:

"Fig. 1 a schematic presentation of the prior art isolation interface using a capacitive coupling.

Fig. 2 the time development of various signals for the isolation interfaces of Fig. 1."

line 13, and before "replicas", delete – said --.

In the claim

In claims 1-7, replace "that" and/or "and that" (each occurrence) with – that –; and – and that – (without underlined each occurrence).

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In claim 5, line 7, before "signal", delete – the --.

In the drawings

The following changes to the drawings have been approved by the examiner and agreed upon by applicant:

Figs. 1-2 are labeled as "Prior Art".

In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

Reasons for allowance

The following is an examiner's statement of reasons for allowance:

The present invention is drawn to an isolation interface with a capacitive barrier utilizing in input circuit, first – second barriers capacitors, first and second logical output signals, an output circuit, first and second logical input signals, first and second voltage comparators, first and second integrating units, first and second resistors, first and second differentiating units, a pulse width modulator and an auxiliary communication channel recited in claims 1-7. None of the prior art disclosed or suggested to show the particular structure and/or the particular operation recited in these claims namely: "the input circuit (A1) a first integrating unit (R1, C1)+ and a second integrating unit (R1, C1)- are provided ... are shorter than the rising and falling-off times of the logical output signals U1o+ and U1o- being the replicas of the transmitted input signal Ui" (line 13- last line) as recited in claim 1; the combination of all the method steps as recited in claim 5.

The prior art reference submitted by the applicant on IDS form received on 01/07/04 was reviewed and considered. This reference (U.S Patent No. 4,835,486)

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appears to be the best reference with respect to the claimed invention and closely matched the reference found during the examiner's searches. However, as noted above, the combination of all limitation the claim is not disclosed. Therefore, the claims are patentably distinct over all these prior art references of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to My-Trang N. Ton whose telephone number is 571-272-1754. The examiner can normally be reached on 7:00 a.m - 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 8, 2004



MY-TRANG NUTON
PRIMARY EXAMINER